

In the Claims:

- 1 1. In a communication system having an originating station at which a data-
2 service call is originated, the data-service call to be terminated at an intended terminating
3 station an improvement of apparatus for selectably facilitating routing of the data-service
4 call to a terminating endpoint, the terminating endpoint selected responsive to at least a
5 delivery mode type, said apparatus comprising:
6 a delivery-mode-type determiner operable responsive to detection of
7 initiation of the data-service call, said delivery-mode-type determiner for determining,
8 with respect to the intended terminating station, the delivery mode type associated with
9 the data-service call; and
10 a call delivery director coupled to said delivery-mode-type determiner,
11 said call delivery director for directing the data-service call to the terminating endpoint,
12 the terminating endpoint formed of the intended terminating station when the delivery
13 mode type determined by said delivery-mode-type determiner comprises a background
14 mode delivery type.
- 1 2. The apparatus of claim 1 further comprising:
2 a service interaction indicia determiner selectably operable
3 responsive to the delivery mode type determiner, said service interaction indicia
4 determiner for determining the at least the first service interaction indicia value; and
5 wherein,
6 said call delivery director is further coupled to said service
7 interaction indicia determiner, the terminating endpoint formed of an other terminating
8 station when the delivery mode type determined by said delivery mode type comprises

9 foreground delivery mode type and the first service interaction indicia value is of a first
10 selected value.

1 3. The apparatus of claim 2 wherein the data-service call comprises an
2 equipment-related call pertaining to the intended terminating station and wherein the
3 terminating endpoint is formed of the intended terminating station when the data-service
4 call comprises the equipment-related call.

1 4. The apparatus of claim 3 wherein the delivery mode type associated with
2 the equipment-related call comprises a maintenance mode, and wherein said call delivery
3 director directs the equipment-related call to the intended terminating station when the
4 delivery mode determined by said delivery-mode-type determiner comprises the
5 maintenance mode and wherein the first service interaction indicia value determined by
6 said service interaction indicia determiner is of the first selected value.

1 5. The apparatus of claim 3 wherein the delivery mode type associated with
2 the equipment-related call comprises a diagnostic mode and wherein said call delivery
3 director directs the equipment related call to the intended terminating station when the
4 delivery mode determined by said delivery-mode-type determiner comprises the
5 diagnostic mode and wherein the first service interaction indicia value determined by said
6 service interaction indicia determiner is of the first selected value.

1 6. The apparatus of claim 3 wherein said call delivery director prohibits
2 delivery of the equipment related call to the terminating endpoint when the first service
3 interaction indicia value determined by said service interaction indicia determiner is of a
4 value other-than-the-first related value.

1 7. The apparatus of claim 1 wherein the communication system comprises a
2 radio communication system having a control center for controlling communications
3 therein, wherein the intended terminating station comprises a mobile station and wherein
4 said delivery-mode-type determiner is embodied at the control center.

1 8. The apparatus of claim 7 wherein said call delivery director is embodied at
2 the control center.

1 9. The apparatus of claim 2 further comprising a database accessible by said
2 service interaction indicia determiner, said database for maintaining a directory of the at
3 least the first service interaction indicia value indexed together with a terminating station
4 identifier, determination of the at least the first service interaction indicia value by said
5 service interaction indicia determiner made by accessing the database.

1 10. The apparatus of claim 9 wherein the first service interaction value
2 maintained at said database indicates whether a call forwarding feature is associated with
3 the intended terminating station.

4 11. The apparatus of claim 9 wherein the first service interaction value
5 maintained at said database indicates whether a do-not-disturb feature is associated with
6 the intended terminating station.

1 12. The apparatus of claim 1 wherein said call delivery director comprises a
2 page message generator, said page message generator for generating a page message
3 which pages the terminating endpoint of the pending data-service call.

1 13. The apparatus of claim 12 wherein the page message includes an
2 indication of the delivery mode type determined by said delivery-mode-type determiner.

1 14. The apparatus of claim 1 wherein the delivery mode type associated with
2 the data-service call is provided to said delivery-mode-type determiner.

3 15. The apparatus of claim 1 further comprising a database accessible by said
4 delivery-mode-type determiner, said database for maintaining a directory of the delivery
5 mode type indexed together with an originating station identifier.

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1 16. In a method for communicating in a communication system having an
2 origination station at which a data-service call is originated, the data-service call to be
3 terminated at an intended terminating station, an improvement of a method for selectably
4 facilitating routing of the data-service call to a terminating endpoint, the terminating
5 endpoint selected responsive to at least a delivery mode type, said method comprising:
6 assigning a delivery mode type to the data service call;
7 determining the delivery mode type assigned during said operation
8 of assigning; and,
9 soliciting a terminating endpoint to which to direct the data service
10 call, the terminating endpoint formed of the intended terminating station when the
11 delivery mode type determined during said operation of determining comprises a
12 background mode delivery type.

1 17. The method of claim 16 wherein the delivery mode type assigned during
2 said operation of assigning comprises the background mode delivery type.

1 18. The method of claim 16 wherein the delivery mode type assigned during
2 said operation of assigning comprises a foreground mode delivery type.

1 19. The method of claim 16 wherein the delivery mode type assigned during
2 said operation of assigning comprises a maintenance mode delivery type.

 20. The method of claim 16 wherein the delivery mode type assigned during
said operation of assigning comprises a diagnostic mode delivery type.